4031741

SUMMARY OF SAFETY AND EFFECTIVENESS ALARIS Medical Systems® Medley™ EtCO₂ Module

SUBMITTER INFORMATION

A. Company Name:

ALARIS Medical Systems, Inc.

B. Company Address:

10221 Wateridge Circle

San Diego, CA 92121-2733

C. Company Phone:

(858) 458-7563

Company Fax:

(858) 458-6114

D. Contact Person:

Renée L. Fluet

Principal Regulatory Affairs Specialist

ALARIS Medical Systems, Inc.

E. Date Summary Prepared:

June 3, 2003

DEVICE IDENTIFICATION

A. Generic Device Name:

Capnograph / EtCO₂ Monitor

B. Trade/Proprietary Name:

Medley™ System with EtCO₂ Module

C. Classification:

Class II

D. Product Code:

CCK, Capnograph

DEVICE DESCRIPTION

The EtCO₂ Module is the newest module to be added to the currently marketed Medley™ Medication Safety System (Medley™ System). ALARIS Medical will incorporate currently marketed Oridion capnograph technology and accessories into the Medley™ EtCO₂ Module. The Medley™ EtCO₂ Module will be used to measure inspired and expired carbon dioxide (FiCO₂ and EtCO₂ respectively) and Respiration Rate (RR) on patients in the operating room, ICU, NICU, transport and emergency treatment. This capnograph technology originates from the MediCap/NPB-75 (K964239). The current

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line of Oridion Microstream accessories for use with the Medley™ EtCO₂ Module are listed below:

- K011536 Microstream O₂/CO₂ Oral Nasal Filterline
- K011050 Microstream Oral Nasal, Cannula Filterline
- K980324 Microstream Filterline OR/EMS
- K980325 Microstream Nasal Cannula Filterline
- K980327 Microstream Filterline ICU

SUBSTANTIAL EQUIVALENCE

The ALARIS Medical Systems[®] Medley[™] System with EtCO₂ Module is of comparable type and is substantially equivalent to the following predicate device:

Predicate Device	Manufacturer	510(k) No.	Date Cleared
MicroCap/NPB-75	Oridion Medical Ltd. (formally known as Spegas Industries, Inc.)	K964239	05/09/97

INTENDED USE

The Medley™ EtCO₂ Module is a capnograph that continuously monitors end tidal carbon dioxide (EtCO₂), fractional inspired carbon dioxide (FiCO₂), and respiratory rate (RR). The monitor is intended for use by professional healthcare providers where continuous, non-invasive monitoring of these parameters is desired.

The Medley™ EtCO₂ Module is indicated for use on adults, pediatrics and infant/neonates for both intubated and non-intubated patients.

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TECHNOLOGICAL CHARACTERISTICS

A comparison of the technological characteristics of the Medley[™] System with EtCO₂

Module and the predicate device has been performed. The results of this comparison demonstrate that the Medley[™] System with EtCO₂ Module is equivalent to the marketed predicate device in technological characteristics.

PERFORMANCE DATA

The performance data included in this submission indicate that the Medley[™] EtCO₂ Module meets specified requirements, and is substantially equivalent to the predicate devices.



FEB - 9 2004

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Ms. Renee L. Fluet Principal Regulatory Affairs Specialist Alaris Medical Systems, Incorporated Corporate Office 10221 Wateridge Circle San Diego, California 92121-2733

Re: K031741

Trade/Device Name: Medley EtCO2 Module

Regulation Number: 868.1400

Regulation Name: Analyzer, Gas, Carbon-Dioxide, Gaseous-Phase

Regulatory Class: II Product Code: CCK Dated: January 9, 2004 Received: January 12, 2004

Dear Ms. Fluet:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal</u> Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4646. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

for, Chiu Lin, Ph.D.

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

INDICATIONS FOR USE

510(k) Number:	K031741	(To Be Assigned By FDA)
Device Trade Name:	Medley [™] System with	EtCO ₂ Module
monitors end tidal carbon did and respiratory rate (RR). T	oxide (EtCO ₂), fractional he monitor is intended for	a capnograph that continuously inspired carbon dioxide (FiCO ₂), or use by professional healthcare g of these parameters is desired.
The Medley [™] EtCO ₂ Modu infant/neonates for both intu		
PLEASE DO NOT WRITE BELO Concurrence of CDRH, Off		E ON ANOTHER PAGE IF NEEDED) (ODE)
	OR Jens fr. H islan Sign-Off)	Over-The-Counter Use
	sion of Anesthesiology, Gelon Control, Dental Devices Number: Ko31741	